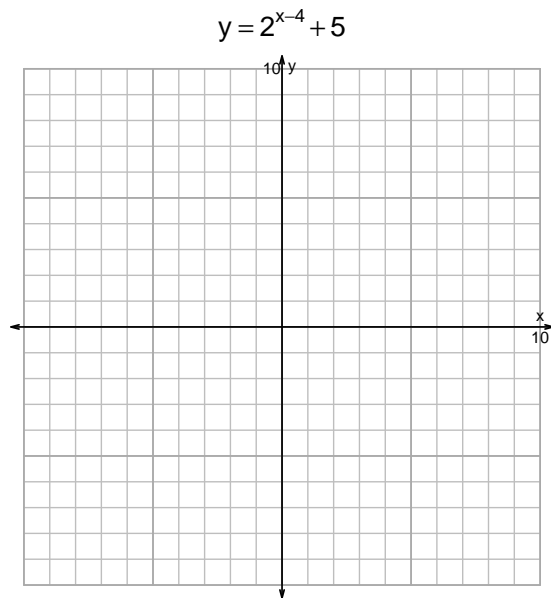
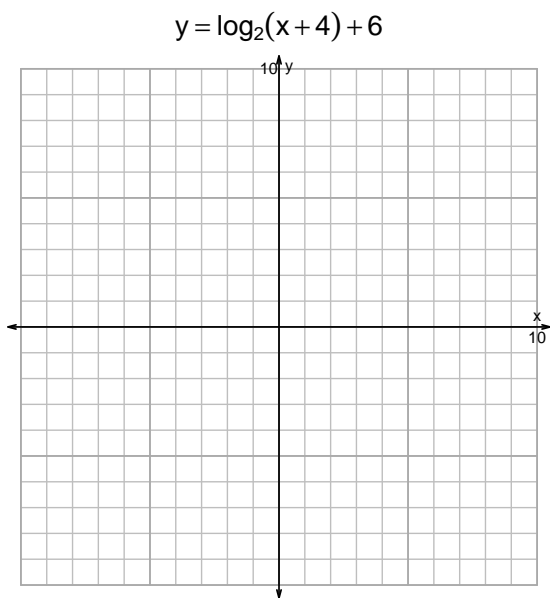


Name: _____

Date: _____

s18QUIZ: EXP LOG (QUIZ v250)

1. Graph $y = \log_2(x + 4) + 6$ and $y = 2^{x-4} + 5$ on the grids below. Also, draw any asymptotes with dotted lines.



2. Write (but do not evaluate) the solution to the equation below by writing a logarithmic expression.

$$11 = \left(\frac{4}{3}\right) \cdot 10^{-5t/7}$$

3. An exponential function $f(x) = 94 \cdot e^{-1.02x}$ is graphed below on a semi-log plot.



- a. Using the plot above, evaluate $f(2.3)$.
- b. Express $f^{-1}(x)$, the inverse of f .
- c. Using the plot above, evaluate $f^{-1}(800)$.